

## Title (en)

POLAROID, TOUCH-CONTROL LIQUID CRYSTAL PANEL AND TOUCH-CONTROL LIQUID CRYSTAL DISPLAY MODULE

## Title (de)

POLAROID-FLÜSSIGKRISTALLANZEIGE MIT BERÜHRUNGSSTEUERUNG UND FLÜSSIGKRISTALLANZEIGEMODUL MIT BERÜHRUNGSSTEUERUNG

## Title (fr)

FILTRE POLARISANT, PANNEAU À CRISTAUX LIQUIDES À COMMANDE TACTILE ET MODULE D'AFFICHAGE À CRISTAUX LIQUIDES À COMMANDE TACTILE

## Publication

**EP 4160281 A4 20240124 (EN)**

## Application

**EP 21946275 A 20211017**

## Priority

- CN 202110754050 A 20210704
- CN 2021124273 W 20211017

## Abstract (en)

[origin: US2023004043A1] The present disclosure provides a polarizer. The polarizer includes: a substrate provided with a first surface and a second surface that are opposite to each other; and a first triacetyl cellulose (TAC) film, a polyvinyl acetate (PVA) film and a second TAC film that are provided on the first surface of the substrate, where at least one of the first surface and the second surface of the substrate is further provided with a transparent conductive layer, which forms a touch electrode. The present disclosure further provides a touch-sensitive liquid crystal display (LCD) panel and module using the polarizer. The polarizer provided by the present disclosure can reduce the thicknesses of the touch-sensitive LCD panel and module, and simplify their production processes.

## IPC 8 full level

**G02B 5/30** (2006.01); **G02F 1/1333** (2006.01); **G02F 1/1335** (2006.01); **G06F 3/041** (2006.01)

## CPC (source: CN EP US)

**G02B 5/3058** (2013.01 - CN); **G02F 1/13338** (2013.01 - CN US); **G02F 1/133528** (2013.01 - CN US); **G06F 3/0412** (2013.01 - CN EP US); **G06F 3/04164** (2019.05 - CN); **G06F 3/0445** (2019.05 - US); **G06F 3/0446** (2019.05 - EP US); **G02F 1/133528** (2013.01 - EP); **G06F 2203/04111** (2013.01 - US)

## Citation (search report)

- [XY] CN 107037627 A 20170811 - BOE TECHNOLOGY GROUP CO LTD, et al
- [XY] KR 20170120461 A 20171031 - SAMSUNG SDI CO LTD [KR]
- [X] US 2016147113 A1 20160526 - CHANG CHIH-SHENG [TW], et al
- See also references of WO 2023279570A1

## Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

## Designated extension state (EPC)

BA ME

## Designated validation state (EPC)

KH MA MD TN

## DOCDB simple family (publication)

**US 11698551 B2 20230711; US 2023004043 A1 20230105; EP 4160281 A1 20230405; EP 4160281 A4 20240124**

## DOCDB simple family (application)

**US 202217716788 A 20220408; EP 21946275 A 20211017**